

# Notice of Allowability

Application No.

09/225,198

Examiner

Lewis A. Bullock, Jr.

Applicant(s)

CHEYER ET AL.

Art Unit

2126

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/25/04.
2. ☒ The allowed claim(s) is/are 1-89.
3. ☒ The drawings filed on 05 January 1999 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

LEWIS A. BULLOCK, JR.  
PRIMARY EXAMINER

Art Unit: 2126

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Corina Tan on September 3, 2004.

The application has been amended as follows:

- The claims are amended as listed in the Attachment.

2. The following is an examiner's statement of reasons for allowance: All of the claims are allowable for at least the following reasons: All of the claims detail the inter-agent language including: a layer of conversational protocol defined by event types and parameter lists associated with one or more of the events, wherein the parameters lists further refine the one or more events; and a content layer comprising one or more goals, triggers and data elements associated with the events. The cited prior art of record do not teach the inter-agent language having the cited layers as disclosed. Prior Art article entitled, "Building Distributed Software Systems with the Open Agent Architecture", published by some of the inventors teaches the cited layers however, the reference has been disqualified by the 1.132 Affidavit filed on 11/25/02. In addition, prior art article "Software Agent Technologies" published by Nwana et al. teach an

Art Unit: 2126

agent communication language (KQML) that comprises three layers: a content layer, a message layer, and a communication layer. The content layer specifies the actual content of the message for which KQML standard itself has nothing to say about its structure (pg. 4). The message layer provides the performative that specifies the protocol for delivering the message that subsumes the content, i.e. the rules that agents must use when initiating and maintaining an exchange (pg. 5). The communication layer encodes low level communication parameters, such as the identities of the sender and the recipient, and unique identifiers for the particular speech act (pg. 5). The disclosed agent communication language does not read upon the cited agent language because the layer does not define an event type as well as the parameter lists that further refines the event. Nwana's language at best has separate layers for the event and the parameters associated with the event. By Applicant providing these parameters in the same layer as the event such that they further refine the event, a standard set of events are dynamically extensible based upon the parameter list which is not possible with the teachings of Nwana. Therefore, the claims are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis A. Bullock, Jr. whose telephone number is (703)

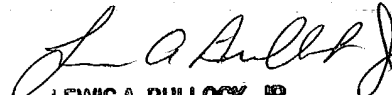
Art Unit: 2126

305-0439. The examiner can normally be reached on Monday-Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng An can be reached on (703) 305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 3, 2004

  
LEWIS A. BULLOCK, JR.  
PRIMARY EXAMINER